

Comments on the Authorship of Some Subfamilial Names in the Turridae

(Mollusca : Gastropoda)

BY

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THE MOST RECENT SUBFAMILIAL arrangement of the toxoglossan family Turridae is the one proposed by POWELL (1966). His arrangement has been extended and modified by McLEAN (1971). Both workers, however, overlooked chronological priorities for family-group names, and the existence of prior names and authorships requires changes.

CASEY'S (1904) proposal of new taxa of the rank of tribe must be given due consideration in a subfamilial classification since the categories of families and tribes are co-ordinate under the rules of article 36 of the Code of ICZN.

Cochlespirinae Powell, 1942

The subfamilial taxon Turriculinae Powell, 1942, cannot be maintained in turrid nomenclature for the group containing the genera *Turricula* Schumacher, 1817, and *Cochlespira* Conrad, 1865. Although not in use in Mitridae because of primary homonymy of the type genus, Turriculidae Carpenter, 1861, and Turriculinae A. Adams, 1864, based on the mitrid genus *Turricula* Fabricius, 1823, nevertheless preoccupy Turriculinae Powell, 1942. The subfamilial taxon Pseudotominae Bellardi, 1875 (and of Hoernes & Auinger, 1891, and Casey, 1904) cannot be utilized as a substitute because of primary homonymy of the type genus *Pseudotoma* Bellardi, 1875 (*non* Gray, 1825).

Turrinae Swainson, 1840

McLEAN (*op. cit.*) correctly credited the authorship of the taxon to Swainson and not to Powell. Synonyms are Pleurotominae Swainson, 1840, Taraninae Casey, 1904 (*ex* Taranini) and Lophiotominae Morrison, 1966.

Clavinae Casey, 1904

In the two recent arrangements of the family, the subfamilial taxon Clavinae has been credited to Powell, 1942,

but CASEY, 1904 (*ex* Clavini) must be acknowledged as the author. Synonyms are Brachytominae Thiele, 1929, with its type genus *Brachytoma* Swainson, 1840, virtually a *nomen inquirendum*, Drilliinae Morrison, 1966 and Crassispirinae Morrison, 1966. The latter subfamily has been separated from the Clavinae by McLEAN (*op. cit.*).

Conorbiinae Pilgrim in Vredenburg, 1925

Usually cited as of Powell, 1942, the family-group name already appears as Conorbidae in VREDENBURG'S (1925) paper on the post-Eocene molluscs of India on page viii. In the preface to this work, G. E. Pilgrim is credited with the groupings of families in the table of contents after the untimely death of E. Vredenburg. Cryptoconinae Wenz, 1938, used by NORDSIECK (1968), is a synonym of Conorbiinae.

Daphnellinae Casey, 1904

The authorship of Daphnellinae has been credited to Hedley, 1922, by POWELL (*op. cit.*) and McLEAN (*op. cit.*), but the taxon has been established previously by Casey, 1904 (*ex* Daphnellini). The prior Raphitomininae Bellardi, 1875, must be considered in case that *Raphitoma* Bellardi, 1848, is assigned to the same group as *Daphnella* Hinds, 1844. Curiously enough, Raphitomininae has been proposed as a new subfamily by NORDSIECK (*op. cit.*), despite a prior usage by previous authors (*e. g.* Hoernes & Auinger, 1891; Powell, 1966). Pleurotomellinae Nordsieck, 1968, is a synonym of Daphnellinae Casey, 1904.

Clavatulinae H. & A. Adams, 1853

The erection of the subfamilial name Clavatulinae dates from 1853 and not from 1858 as generally quoted. Pusionellinae H. & A. Adams, 1853, and Clionellidae Stimpson, 1865, are synonyms.

Mitromorphinae Casey, 1904

Three subfamily names are available for the group of turrids centering around the *Mitromorpha-Mitrolumna* complex of species. Diptychomitridae Bellardi, 1888, based on the type genus *Diptychomitra* Bellardi, 1888, a synonym of *Mitrolumna* Bucquoy, Dautzenberg & Dollfus, 1883, is the oldest available name, despite the synonymy of the type genus. The next available name is Mitromorphinae Casey, 1904 (*ex* Mitromorphini), published 19 May 1904, which has chronological priority over Mitrolumnidae Sacco, 1904, dating from August of that year. The group under discussion has been previously referred to as the "group of mitromorphid genera" and assigned to the Borsoniinae by POWELL (1966), or as the "mitromorphine group of Turridae" (CERNOHORSKY, 1970). McLEAN (*op. cit.*) acknowledged the group as a distinct subfamily, but accepted the later Mitrolumninae Sacco, 1904.

The recent emendation of article 23(b) of the Code of ICZN by the International Commission on Zoological Nomenclature (1970) poses a minor taxonomic problem as far as the usage of at least 2 of the names is concerned. Synonymy of the type genus *Diptychomitra* does not invalidate the family-group name Diptychomitridae, notwithstanding the fact that *Diptychomitra* Bellardi has not been used as a genus-group. Not one of the three subfamily names qualifies as having been in "general use" in the last 50 years, and a petition to the Commission for the acceptance of Mitromorphinae Casey, 1904, in precedence over Diptychomitridae Bellardi, 1888, may be necessary for the stability of nomenclature.

Clathurellinae H. & A. Adams, 1858

McLEAN (1971) proposed the new subfamily name Clathurellinae, in which case he has been anticipated by H. & A. ADAMS, 1858, who proposed the taxon as a substitute name for Defranciinae H. & A. Adams, 1853. The latter subfamily is an invalid family-group name based on the homonymous type genus *Defrancia* Millet, 1826 (*non* Bronn, 1825). POWELL (*op. cit.*) retained *Clathurella* Carpenter, 1857, and associated genera in the Mangeliinae.

Mangeliinae Fischer, 1883

Authors cite the subfamily name Mangeliinae as from Fischer, 1887, but the taxon was established by FISCHER in fasc. 6 (p. 587) of his "Manuel de Conchyliologie,"

which dates from 20 December 1883. Mangeliinae has also been used by Tryon in 1884. Belinae Hoernes & Auinger, 1891 (credited to Bellardi) and Cytharinae Thiele, 1929, are synonyms. *Cythara* Schumacher, 1817, the type genus of Cytharinae, remains a dubious taxon.

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